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Title and author (if document is unnumbered)
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Date request received
Date submitted to ADC 18/14/95
Date submitted to HSA Coordinator 10/, 2/9
(This section to be completed by HSA Coordinator)
Date submitted to CICO 12/14/95 1-18-91
Date received from CICO \ \-8-9\b 3/6/96
Date submitted to ChemRisk/Shonka and DOE3/7/96
(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)
Date document received
Signature

SANITIZED VERSION OF MATERIAL RELEASE REPORTS, NOS. 188-223 AUGUST 1955 THRU JUNE 1956

(SANITIZED VERSION OF CRD DOCUMENT #KP-869 COMBINED)

Compiled by
S. G. Thornton
Environmental Management Division
OAK RIDGE K-25 SITE
for the Health Studies Agreement

December 14, 1995

Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831-7314
managed by
LOCKHEED MARTIN ENERGY SYSTEMS, INC.
for the U.S. DEPARTMENT OF ENERGY
under Contract DE-AC05-84OR21400

This document has been approved for release to the public by: A fortrand 1/96 Pecasical Integration Officer Date 1/14K Holge K-25 Site

CENTRAL

KP-869 Combined



MATERIAL RELEASE REPORT No. 188 through 233

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This document consists of 43 pages Number 1 of 1 copies, Series A.

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KP-869 Combined

Material Release Reports, Nos. 188 --- 223
August 1955 thru June 1956
(Part 1 through Part 36)

H. G. Grisham

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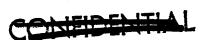
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This document contains restricted data as defined in the Atomic Energy Act of 1954 lts/transmittal or the disclosure of its contents in any manner to an upaythorized person is prohibited.

-3-









(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

633299

Mr. J. A. Parsons

LOCATION

K-303-8

ATTENTION

COPY TO

Mr. D. C. Brater

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen

Mr. R. G. Nicol

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

File (H. G. Grisham)

DATE

August 10, 1955

ANSWERING LETTER DATE

SUBJECT

K-1401 Material Release,

Report No. 188

KP-869, Part 1

Date of Release Location of Release Balance Area Account No. Material Class or Assay

Amount of Material Involved

Equipment

Source of Information

April, May, June, 1955

K-1401 200

UF6 "C"

1,135 grams uranium

"00" Converters

R. G. Nicol

Details: Known loss of calculated quantity.

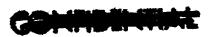
During the last quarter of fiscal year 1955, a total of thirteen K-31 converters and one converter from the K-309-3 test loop were decontaminated at K-1401. These converters were fluorinated at high temperatures in the furnace stand for a period of two or three hours and the recovered UF6 vented to the atmosphere. Sufficient data were taken to enable a calculation of the recovered UF6 from each converter to be made. The uranium-235 was obtained by applying the proper assay to the recovery from each unit. The assays for the K-31 converters averaged 2.5% and the assay for the test loop converter was 10.5%. A calculated quantity of 1,135 grams uranium and 61 grams uranium-235 was vented to the atmosphere from these fourteen converters during the quarter. This material will be shown as a measured loss and properly credited to the 200 account.

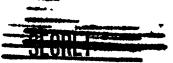
H. G. Grisham

This

FORM FOR INTER-COMPANY CORRESPONDENCE ONLY

WCX-153 : 3-55)





(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

633308

TO

Mr. J. A. Parsons

DATE

August 10, 1955

LOCATION

K-303-8

ANSWERING LETTER DATE

ATTENTION COPY TO

Mr. R. R. Frazier (2) K25RC

SUBJECT K-633 Material Release,

Report No. 189

Mr. L. H. Gooch Mr. J. A. Marshall Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

Mr. B. H. Thompson File (H. G. Grisham) KP-869, Part 2

Date of Release

Location of Release

Balance Area Account Number

Material

Class or Assay

Amount of Material Involved

Equipment

Source of Information

April 19, 1955

K-633

530

UF6

Class "A", 0.400%

25 lbs. UF6

Copper tubing

L. H. Gooch

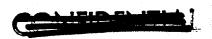
Details: Known loss of estimated quantity

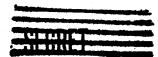
On April 19, 1955, a material release occurred in K-633 as a result of a rupture in the copper tubing pigtail which connects the feed cylinder to the permanent piping. A period of time of approximately five minutes was required to close the valves which isolated the ruptured pigtail. An estimated quantity of 25 pounds UF6 was lost as a result of this release. This quantity of 7,668 grams uranium and 31 grams uranium-235 will be carried as a measured loss and credited to the 530 account.

HG2: em

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contents in any manner to an unauthorized person is probibited.





INTER-COMPANY CORRESPONDENCI

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

6-33318

TO

Mr. J. A. Parsons

DATE

August 10, 1955

LOCATION

K-303-8

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. R. R. Frazier (2) K25RC

Mr. J. A. Marshall

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder Mr. B. H. Thompson

Mr. A. Varlan

File (H. G. Grisham)

SUBJECT

K-1131 Material Release,

Report No. 190

KP-869, Part 3

Date of Release Location of Release Balance Area Account Number Material Class or Assay

Amount of Material Involved

Equipment

Source of Information

July, 1955 K-1131 550

UF6 "A"

3,555 grams uranium K-1131 Vent Stack Letter KP-860

Details: Known loss of calculated quantity

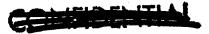
During the month of July, 1955, Process Control Laboratory took 49 routine vent stack gas samples to determine the extent of material which was vented to the atmosphere during the 21 days of July which the K-1131 feed plant was in operation. Using an average of these sample results and a flow rate of 15 pounds per hour as a basis, a calculated loss of 3,555 grams uranium and 24 grams uranium-235 was vented to the atmosphere during this 21-day period of operation. This quantity of material will be shown as a measured loss and credited to the 550 account.

G. Grisham

HGG: em

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Approved:





(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN

Mr. J. A. Parsons

September 16, 1955 DATE

LOCATION K-303-8

ANSWERING LETTER DATE

ATTENTION COPY TO

Mr. R. R. Frazier (2) K25RC

Mr. J. A. Marshall

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

Mr. B. H. Thompson

Mr. A. Varlan

File (H. G. Grisham)

K-1131 Material Release, SUBJECT

Report No. 191

KP-869, Part 4

Date of Release Location of Release Balance Area Account No. Class or Assay Amount of Material Involved

Source of Information

550 UF6

K-1131

Equipment

6,297 grams uranium K-1131 Vent Stack

W. D. McCluen

August, 1955

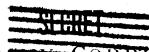
Details: Known loss of calculated quantity.

During the month of August, 1955, Process Control Laboratory took periodic vent stack gas samples at the K-1131 feed plant to determine the extent of material which was vented to the atmosphere during the full month's period of operation. Using an average of these sample results and a flow rate of 30 pounds per hour as a basis, a calculated loss of 6,297 grams uranium and 42 grams uranium-235 was vented to the atmosphere during the month. This quantity of material will be shown as a measured loss and credited to the 550 account.

HGG rumk

M FOR INTER-COMPANY CORRESPONDENCE ONLY





INTER-COMPANY

(INSERT) COMPANY CARFIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TEN

Mr. J. A. Parsons

LOCATION

DATE October 10, 1955

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

File (H. G. Grisham)

SUBJECT Vaults15-A and 16-A

Material Release.

Report No. 192

KP-869, Part 5

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved

Equipment

Source of Information

September 28, 1955 Vaults 15-A and 16-A

920

Carbonate Solution and Laboratory Waste

Class "D"

340.94 liters

Drums No. L-453 and No. R-2668

J. W. Arendt

Details: Known loss of known quantity.

As a result of the corrosive action of the contents of the drums on the walls of same, leaks were discovered in drum No. L-453 in Vault 15-A and drum No. R-2668 in Vault 16-A on September 28, 1955. Drum No. L-453 contained 95.04 liters of carbonate solution and was a total loss with no recovery. A known loss of 202 grams uranium and 44 grams uranium-235 resulted here. Drum No. R-2668 contained 245.9 liters of laboratory waste solution, with a release of 787 grams uranium and 187 grams uranium-235. A recovery of 663 grams uranium and 158 grams uranium-235 was effected, leaving a known loss of 124 grams uranium and 29 grams uranium-235. These two known losses of material will be shown as a measured loss and credited to the 920 account.

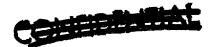
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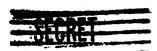
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person is prohibited.

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WCX-163 - 3-55)





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INTER-COMPANY CORRESPONDENCE

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION Post Office Box P OAK RIDGE, TENN.

FO Mr. J. A. Parsons LOCATION K-303-8

DATE October 26, 1955

ANSWERING LETTER DATE.

ATTENTION

COPY TO

Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn Mr. H. G. P. Snyder File (H. G. Grisham) SUBJECT

Correction to Material Release Report No. 192

KP-869, Part 5 - Errata

This letter is written in order to correct Material Release Report No. 192. The measured loss from drum No. L-453 was incorrectly reported as being 202 grams uranium and 44 grams uranium-235. It should be corrected to show a loss of 2 grams uranium and 0 grams uranium-235.

S. S. Stief

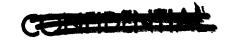
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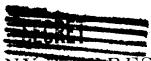




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WCX- (63 (3-55)





INTER-COMPANY GORRESPIL

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN

7.0 Mr. J. A. Parsons LOCATION **K-303-8**

October 19, 1955 DATE

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. A. L. Allen

Mr. R. R. Frazier (2) K25RC

Mr. J. A. Marshall

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

Mr. B. H. Thompson File (H. G. Grisham) SUBJECT

K-1420 Material Release,

Report No. 193

KP-869, Part 6

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

September 12, 1955 K-1420 200 Second Rinse Solution Class "A" 890 liters Second Rinse Booth D. R. Carson

Details: Known loss of calculated quantity.

During the decontamination of converter 000-496 in K-1420, there occurred an unusual "carry-over" of solution from the first rinse booth to the second rinse booth. Since this converter, which had been installed in the K-633 test loop, was particularly "hot" (the analysis of the first rinse solution varied from 0.56 grams uranium per liter to 7.06 grams uranium per liter), it was felt that a measured loss report should be made on this operation. Using the known volume and the analysis of the first rinse booth, a calculated loss to the second rinse booth of 2,756 grams uranium and 12 grams uranium-235 was made. Since no flow or analytical measurements are made on this second rinse solution which flows to the holding pond, the above-mentioned quantity of material will be shown as a measured loss and credited to the 200 account. The 200 account is credited since the material originally passed from the K-633 test loop to ntamination account. K-1420 without being charged to

FORM FOR INTER-COMPANY CORRESPONDENCE ONL

Approved:





CORRESPONDENCE INTER-COMPANY

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN

10 LOCATION Mr. J. A. Parsons

October 19, 1955 DATE

ANSWERING LETTER DATE

ATTENTION COPY TO

Mr. R. R. Frazier (2) K25RC

Mr. J. A. Marshall

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

Mr. B. H. Thompson

Mr. A. Varlan

File (H. G. Grisham)

K-1131 Material Release, SUBJECT . Report No. 194

KP-869, Part 7

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

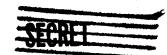
September, 1955 K-1131 550 UF6 Class "A" - 0.670% 11.130 grams uranium K-1131 Vent Stack W. D. McCluen

Details: Known loss of calculated quantity.

During the month of September, 1955, periodic vent stack gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the full month of operation. Using an average of these sample results (171 ppm) and a flow rate of 30 pounds per hour as a basis, a calculated quantity of 11,130 grams uranium and 75 grams uranium-255 was vented to the atmosphere during the month. This quantity of material will be shown as a measured loss and credited to the 550 account.

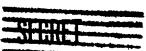
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INTER-COMPANY CORRESPON

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

Mr. J. A. Parsons

K-303-8 LOCATION

DATE October 26, 1955

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. D. C. Brater

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen

Mr. R. G. Nicol Mr. M. F. Schwenn

Mr. H. G. P. Snyder

File (H. G. Grisham)

SUBJECT K-1401 Material Release,

Report No. 195

KP-869, Part 8

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment

Source of Information

September, 1955

K-1401

200

UF6 "C" - 2.000%

120 grams U

"00" converters

R. G. Nicol

Details: Known loss of estimated quantity.

During the latter part of the first quarter of fiscal year 1956, two "00" converters were decontaminated in K-1401 using fluorine at high temperatures, with the recovered UF6 being vented to the atmosphere. Normally, this material is cold trapped but, due to an operating error, the material removed from these converters was not cold trapped. The quantity of material thus lost to the atmosphere was estimated, using previous decontamination experience at K-1401 for the past three years. Using the assay of the position in the plant from which these converters were withdrawn, an estimated loss of 120 grams uranium and 2 grams uranium-235 occurred. This material will be shown as a known loss and credited to the 200 account.

WCX-163 (3-55)

ORRESPONDENCE ONLY

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(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

Mr. J. A. Parsons O_{i} LOCATION K-303-8

October 26, 1955 DATE

ANSWERING LETTER DATE

ATTENTION

COPY TO

This 195 Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. H. M. Preuss Mr. M. F. Schwenn Mr. H. G. P. Snyder File (H. G. Grisham) SUBJECT K-301-1.4 Material Release, Report No. 196

KP-869, Part 9

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

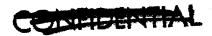
August 31, 1955 K-301-1.4 200 UF6 "ם" 0.5 lb. UFA Air Jet CCR Log Book

Details: Known loss of estimated quantity.

On August 31, 1955, during the evacuation and purging of cell K-301-1.4, a mis-valving operation occurred and a small quantity of material was released from an evacuation line which had not been isolated. This release was estimated to be 0.5 lb. UF6. This quantity of material, will be carried as a

measured loss and credited to the 200 account.

CORRESPONDENCE ONLY THIS FORM FOR INTER-COMPANY 13-





(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

 Γ O

Mr. J. A. Parsons

LOCATION K-303-8

ATTENTION

COPY TO

This as del 1954. of. i

Mr. J. Dykstra

Mr. R. R. Frazier (2)

Mr. J. A. Marshall

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

✓Mr. B. H. Thompson

File (H. G. Grisham)

DATE

November 18, 1955

ANSWERING LETTER DATE

SUBJECT K-1410 Material Release,

Report No. 197

KP-869, Part 10

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

October, 1955 K-1410 390 Ammonium Carbonate Solution Class "B" 101 liters Two containers of solution D. R. Carson

Details: Known loss of known quantity.

On October 9, 1955, two containers of ammonium carbonate solution were sent to K-1410 for temporary storage before being transferred to account 920. This solution was sampled and found to contain 696 grams uranium and 13 grams uranium-235. These containers were inventoried October 31, 1955, resampled, and found to contain only 33 grams uranium and 1 gram uranium-235. Due to the corrosive action of the solution, leaks had developed in the containers with a loss of 91 liters of the solution. This known loss of 663 grams uranium and 12 grams uranium-235 will be shown as a measured loss and credited to the 390 account.

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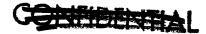
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-14-





CORRESPONDENCE INTER-COMPANY

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN

TO

Mr. J. A. Parsons

LOCATION

K-303-8

DATE

November 18, 1955

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. L. L. Anthony

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

File (H. G. Grisham)

SUBJECT K-33 Feed Room Material

Release, Report No. 198

KP-869, Part 11

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment

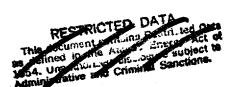
Source of Information

November 1, 1955 K-33 Feed Room 115 UF6 0.785% 6 lbs. UFG P-80

E. L. Clay

Details: Known loss of known quantity.

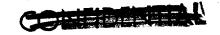
A cylinder, P-80, of Paducah product material was received October 26, 1955, at a gross weight of 6,406 pounds. While this cylinder was being heated for feeding, a leak, due to a bad valve, was discovered. After the leaky valve had been replaced, the gross weight of the cylinder was 6,400 pounds. This 6 pounds of UF6 material, 1,840 grams uranium and 14 grams uranium-235, will be carried as a measured loss and credited to the 115 account.



HGG: mmk

195





CORRESPONDENCE

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TEN

✓Mr. J. A. Parsons

K-303-8 LOCATION

November 18, 1955 DATE

ANSWERING LETTER DATE

ALTENTION

COPY TO

Mr. R. R. Frazier (2) K25RC

Mr. J. A. Marshall

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

Mr. B. H. Thompson

Mr. A. Varlan

File (H. G. Grisham)

SUBJECT K-1131 Material Release,

Report No. 199

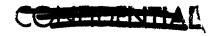
KP-869, Part 12

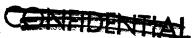
Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

October, 1955 K-1131 550 UF6 Class "A" - 0.670% 10,406 grams uranium K-1131 Vent Stack W. D. McCluen

Details: Known loss of calculated quantity.

During the month of October, 1955, periodic vent stack gas samples were taken at K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the full month of operation. Using an average of these samples (154 ppm) and a flow rate of 30 pounds per hour as a basis, a calculated quantity of 10,406 grams uranium and 70 grams uranium-235 was vented to the atmosphere during the month. This quantity of material will be shown as a measured loss and credited to the 550 account.







Pris document consists of process

INTER-COMPANY CORRESPONDENCE

12142

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION DAK RIDGE, TENN.

TO Mr. J. A. Parsons LOCATION K-303-8

DATE December 15, 1955

ANSWERING LETTER DATE

ATTENTION

COPY TO 1

Mr. R. R. Frazier (2) K25RC

Mr. J. A. Marshall Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder Mr. B. H. Thompson

Mr. A. Varlan

File (H. G. Grisham)

SUBJECT K-1131 Material Release, Report No. 200

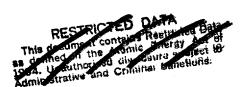
KP-869, Part 13

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

November, 1955
K-1131
550
UF6
Class "A" - 0.670%
14,211 grams uranium
K-1131 Vent Stack
W. D. McCluen

Details: Known loss of calculated quantity.

During the month of November, 1955, periodic vent stack gas samples were taken at K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during a full month's operation. Using the average of these vent samples and a flow rate of 30 pounds per hour as a basis, a calculated quantity of 14,211 grams uranium and 95 grams uranium-235 was vented to the atmosphere during the month. This quantity of material will be shown as a measured loss and credited to the 550 account.



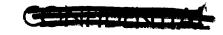
H. G. Grisham

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Approved: _

S. S. Stief

SECRET



Post Office Lox P

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

✓ Mr. J. A. Parsons

LOCATION K-303-8

ATTENTION

COPY TO

Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

File (H. G. Grisham)

DATE December 15, 1955

ANSWERING LETTER DATE

SUBJECT Vaults 15-A and 16-A

Material Release,

Report No. 201

KP-869, Part 14

Date of Release Location of Release Balance Area Account No. Material

Class or Assay Amount of Material Involved Equipment

Source of Information

November 20 and 30, 1955 Vaults 15-A and 16-A 920 Laboratory Waste and Ammonium Filtrate Solution "A", "B", and "C" 747.85 liters Drums Nos. R-4173, E-4366, R-4503, and R-4026

J. W. Arendt

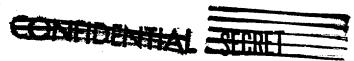
Details: Known loss of known quantity.

On November 20, 1955, drums Nos. R-4173, E-4366, and R-4503 were discovered to have developed leaks as a result of the corrosive action of the contents of the drum. These drums initially contained 668.85 liters of material (7,925 grams uranium and 148 grams uranium-235). A recovery of 6,370 grams uranium and 94 grams uranium-235 was made. The difference of 1,555 grams uranium and 54 grams uranium-235 is a known loss. Drum No. R-4026 also developed a leak on November 30, 1955, and released the contents of the drum with no recovery. A known loss of 1 gram uranium and 1 gram uranium-235 resulted from this leak. A total known loss of 1,556 grams uranium and 55 grams uranium-235 resulted from these four drums. will be shown as a measured loss and credited to the 920 account.

as definé

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FORM FOR INTER-COMPANY CORRESPONDENCE ONLY



(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION GAK RIDGE, TENS

/Mr. J. A. Parsons LOCATION K-303-8

January 17, 1956 DATE

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn Mr. H. G. P. Snyder

File (H. G. Grisham)

SUBJECT Vault 16-A Material Release, Report No. 202

KP-869, Part 15

Date of Release Location of Release Balance Area Account No. Material

Class or Assay Amount of Material Involved Equipment

Source of Information

December 14, 1955 Vault 16-A 920 Uranyl Fluoride and Laboratory Waste Solutions "A" and "B" 247.22 liters Drums Nos. R-4181, R-4177, and R-3643 J. W. Arendt

Details: Known loss of known quantity.

On December 14, 1955, drums Nos. R-4181, R-4177, and R-3643 were discovered to have developed leaks as a result of the corrosive action of the contents of the drums. These drums initially contained 247.22 liters of uranyl fluoride and laboratory waste solutions (10,528 grams uranium and 85 grams uranium-235). A recovery of 1,410 grams uranium and 22 grams uranium-235 was made. The difference between the initial contents and the recovery (9,118 grams uranium and 63 grams uranium-235) will be shown as a measured loss and credited to the 920 account. This measured loss is broken down into material ranges as follows:

Material Range	Grams U	Grams U ²³⁵
670	7,864	43
श्रो	7,8 <i>6</i> 4 817	10
10L1	437	<u>10</u>
Total	9.118	63

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RM FOR INTER-COMPANY CORRESPONDENCE

-19-

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TE

√ Mr. J. A. Parsons K-303-8 LOCATION

DATE January 17, 1956

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. R. R. Frazier (2) K25RC

Mr. J. A. Marshall

Mr. W. D. McCluen Mr. M. F. Schwenn

Mr. H. G. P. Snyder

Mr. B. H. Thompson

Mr. A. Varlan

File (H. G. Grisham)

SUBJECT K-1131 Material Release, Report No. 203

KP-869, Part 16

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment

Source of Information

December, 1955 K-1131 550 UFG Class "A" - 0.670% 16,202 grams uranium K-1131 Vent Stack W. D. McCluen

Details: Known loss of calculated quantity.

During December, 1955, periodic vent stack gas samples (81) were taken at K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during a full month's operation. Using an average of these vent samples (142 ppm) and a flow rate of 30 pounds per hour as a basis, a calculated quantity of 16,202 grams uranium and 109 grams uranium-235 was vented to the atmosphere during December. This quantity of material will be shown as a measured loss and credited to the 550 account.

as def

WCX-163 - 3-55

CORRESPONDENCE ONLY FOR INTER-COMPAN

CORRESPONDENC INTER-COMPANY

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

TO ✓ Mr. J. A. Parsons

LOCATION K-303-8

January 17, 1956 DATE

ANSWERING LETTER DATE

ATTENTION

COPY TO Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn Mr. G. T. E. Sheldon Mr. H. G. P. Snyder File (H. G. Grisham)

SUBJECT K-306-7 PPU Material

Release, Report No. 204

KP-869, Part 17

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

December 4, 1955 K-306-7 PPU 140 UF6 "G" 100 grams U Drain line valve CCR Log

Details: Known loss of estimated quantity.

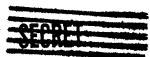
Due to the rupture of the bellows in drain line valve No. 44 of the K-306-7 PPU, a release of UF6 occurred on December 4, 1955. This estimated release of 100 grams uranium and 93 grams uranium-235 will be carried as a measured loss and credited to the 140 account.

HGG: mmk

1954. 1







(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

Post Office Box I

TO

✓ Mr. J. A. Parsons

LOCATION K-303-8 DATE January 17, 1956

ANSWERING LETTER DATE

ATTENTION

COPY TO.

Mr. R. H. Dyer

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn

Mr. H. G. P. Snyder File (H. G. Grisham) SUBJECT K-413 Material Release,

Report No. 205

KP-869, Part 18

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

December 26, 1955 K-413 150 UF6 1.500% 7 1bs. UF6 Cylinder No. 23505 CCR Log

Details: Known loss of known quantity.

On December 26, 1955, cylinder No. 23505 was filling at the K-413 building as part of a special withdrawal when a leak developed in the cylinder valve. The cylinder was immediately removed from the filling location and iced down. After a new valve had been installed, a reweighing of the cylinder indicated that the release amounted to 7 pounds UF6. This quantity of material, 2,147 grams uranium and 32 grams uranium-235, will be carried as a known loss and credited to the 150 account.



FORM FOR INTER-COMPANY CORRESPONDENCE ONLY

CORRESPUNDEN INTER-COMPANY

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

/Mr. J. A. Parsons

K-303-8 LOCATION

DATE

January 31, 1956

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. R. H. Dyer

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder File (H. G. Grisham) SUBJECT

Correction to Material Release Report No. 205

KP-869, Part 18 - Errata

This letter is written as a correction to Material Release Report No. 205. Although cylinder No. 23505 did develop a valve leak and showed a weight decrease of 7 pounds after the valve was repaired as reported in the CCR log book, it is felt, according to K-27 supervisory personnel, that the release was not nearly this great because the material in the pigtail connected to the filling cylinder had to be evacuated before the valve could be repaired and this material, as well as the pigtail, was a portion of the weight of the cylinder before the leak developed. Since the scales which were used for weighing this cylinder were not official weight scales, and since K-27 supervisory personnel regard it only as a minor release, Material Release Report No. 205 should be corrected to show a minor release of unknown quantity.

HGG:mmk

FOR INTER-COMPANY CORRESPONDENCE ONLY -23-

WCX-163 - 3-55)

INTERCOMPANY CORRESPONDENCE //2/3/

(DISERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

TO

Mr. J. A. Parsons

LOCATION

K-303-8

DATE

January 17, 1956

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. R. R. Frazier (2) K25RC

Mr. J. A. Marshall

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

Mr. B. H. Thompson

Mr. A. Varlan

File (H. G. Grisham)

Report No. 206

KP-869, Part 19

Date of Release Location of Release Balance Area Account No. Material Class or Assay

Amount of Material Involved

Equipment

Source of Information

November 8, 1955

K-1131

550 **UF**6

"A"

10 lbs. UF6

Clean-up Reactor

A. Varlan

Details: Known loss of known quantity.

On November 8, 1955, due to a leak in the clean-up reactor at K-1131, a release estimated at 10 pounds UF6 occurred. This release of 3,067 grams uranium and 21 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

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H. G. Grisham

App

ed:_________

S. S. Stief

HGG:mmk

RESTRICIED DAVA

This Document Contains Resident Data as Defined in
The Atomic Energy Act of 195A. Its Transmittal Or Vie
Disclosure of its Contents in Any Manner to An Unauthorized Person is Prohibited.





CORRESPONDENCE INTER-COMPANY

(INSERT) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION OAK RIDGE, TENN.

Post Office Box P

✓ Mr. J. A. Parsons LOCATION K-303-8

ATTENTION

05 195

Mr. J. W. Arendt COPY TO

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn Mr. H. G. P. Snyder File (H. G. Grisham)

February 1, 1956 DATE

ANSWERING LETTER DATE

SUBJECT Vaults 15-A and 16-A Material Release, Report No. 207

KP-869, Part 20

Date of Release Location of Release Balance Area Account No. Material

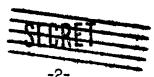
Class or Assay Amount of Material Involved Equipment Source of Information

January 31, 1956 Vaults 15-A and 16-A 920 C-816, Hydrocarbon Oil, and Laboratory Waste "A" and "B" 1,408.47 liters Drums as shown below J. W. Arendt

Details: Known loss of known quantity.

On January 31, 1956, ten drums of C-816, laboratory waste, and hydrocarbon oil solutions, located in vaults 15-A and 16-A, were discovered to have developed leaks sometime during the month of January as a result of the corrosive action of the contents of the drums. The entire contents of the drums had been released and no recovery was made. The material type and loss from each drum are shown below:

Drum No.	Material Type	Volume, Liters	Grams U	Grams U235
X-3223	9N7	108.90	35	1
E-1028	9W7	27.50	1	O , ' `
E-38	9W7	51.90	7	0
E-885	6W1	204.80	545	2
E-920	6 17 1	211.20	496	5
E-1288	6W1	212.48	2,465	17
E-1290	6W1	186.88	16,109	109
E-1512	6W1	209. 92	405	5 *
R-3423	61.1	102.22	16,017	106
R-3699	611	92.67	908	6 6
RECTRICTED	WXX.	Total	36, 685	247
document/contains	Infolo fato		• • • • • • • • • • • • • • • • • • • •	4 . 4
finds in the Atomic A	19919			DAM
<i>ヤススイアワンアサンタンタ</i>	7 75 75 7			16.25



CONFIDENTIAL

Mr. J. A. Parsons

HGG: mmk

February 1, 1956

The total release of 36,685 grams uranium and 247 grams uranium-235 will be shown as a known loss and credited to the 920 account.

H. J. Grisham

H. G. Grisham

Approved:

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To:

/Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

February 15, 1956

Subject: K-1131 Material Release,

Copies To: Mr. R. R. Frazier (2) K25RC

Mr. J. A. Marshall Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder

Mr. B. H. Thompson

Mr. A. Varlan

File (H. G. Grisham)

Report No. 208

KP-869, Part 21

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved

Equipment Source of Information January, 1956 K-1131

550 UF6

Class "A"

12,471 grams uranium K-1131 Vent Stack W. D. McCluen

Details: Known loss of calculated quantity.

During January, 1955, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the full month's operation. During the first twenty-three days of January and for the last day of the month, the feed plant was producing 6-range material. Using a flow rate of 50 pounds per hour and an average analysis of 95 ppm, a calculated quantity of 8,392 grams uranium and 56 grams uranium-235 of 6-range material was thus vented to the atmosphere.

For a period of seven days, the feed plant was operating on 2-range production. Using the average of vent samples (180 ppm) and a flow rate of 45 pounds per hour, a calculated loss of 4,079 grams uranium and 10 grams uranium-235 of 2-range material was vented to the atmosphere.

The total loss of material vented to the atmosphere (12,471 grams uranium and 66 grams uranium-235) will be shown as a measured loss and credited to the 550 account.

his form for Inter Company Correspondence only

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To:

/Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

March 8, 1956

Copies To: Mr. R. R. Frazier (2) K25RC

Mr. J. A. Marshall Mr. W. D. McCluen Mr. M. F. Schwenn Mr. H. G. P. Snyder Mr. B. H. Thompson

Mr. A. Varlan

File (H. G. Grisham)

Subject: K-1131 Material Release,

Report No. 209

KP-869, Part 🕮

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

February, 1956 K-1131 550 UF6 Class "A" 14.410 grams uranium K-1131 Vent Stack W. D. McCluen

Details: Known loss of calculated quantity

During February, 1956, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month's operation. Using an average of these vent samples (135 ppm) and a flow rate of 50 pounds per hour, a calculated quantity of 14,410 grams uranium and 97 grams uranium-235 was vented to the atmosphere during February. This quantity of material will be shown as a measured loss and credited to the 550 account.

HGG: mmk

is form for Inter-Company Correspondence only

Union Carbide Nuclear Company

A Division of Union Carbide and Carbon Corporation

To:

✓Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

March 14, 1956

Copies To: Mr. L. L. Anthony

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn Mr. H. G. P. Snyder File (H. G. Grisham)

Subject: K-33 Material Release,

Report No. 210

KP-869, Part 23

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

January 20, 1956 K-33 Feed Room 150 UF6 0.795% 5 lbs. UF6 Cylinder P-133 W. D. McCluen

Details: Known loss of known quantity.

On January 20, 1956, a cylinder, P-133, of Paducah product material was being heated prior to feeding when a leak, due to a bad valve, was discovered. The cylinder was iced down and the valve changed after a release of five pounds of UF6 material had resulted from the leaky valve. A request for decontamination was made and the area was decontaminated, but no separate accountability was maintained and hence there was no record of the decontamination results. As a result, the entire release of 1,534 grams uranium and 12 grams uranium-235 must be shown as a measured loss and credited to the 150 account.

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WCX-163 (8-55)

This form for Inter-Company Correspondence only

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To:

Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

March 28, 1956

Copies To: Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen ✓ Mr. M. F. Schwenn Mr. H. G. P. Snyder File (H. G. Grisham) Subject:

Vault 16-A Material Release,

Report No. 211

KP-869, Part 24

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

March 26, 1956 Vault 16-A 920 Laboratory Waste 20.50% 142 grams uranium Drum No. G-2902 J. W. Arendt

Details: Known loss of known quantity.

On March 26, 1956, drum No. 2902, containing 48.05 pounds of laboratory waste material, was discovered to have developed a leak during the month of March, 1956, as a result of the corrosive action of the contents of the drum. The entire contents of the drum had been released and no recovery was effected. The total release of 142 grams uranium and 29 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

HGG: mmk

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 $INTFR ext{-}COMPA$

Union Carbide Nuclear Company

A Division of Union Carbide and Carbon Corporation

To:

JMr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

April 16, 1956

Copies To: Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn Mr. H. G. P. Snyder File (H. G. Grisham) Subject:

Vault 26-A Material Release,

Report No. 212

KP-869, Part 25

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment

Source of Information

March 30, 1956 Vault 26-A 980 Laboratory Waste (27L1) 89.05% 12,775 grams of impure material 0-2927 J. W. Arendt

Details: Known loss of known quantity.

On March 30, 1956, a truck which was being "backed" into the alley-way of vault 26-A ran over a five-gallon bucket (G-2927), releasing the contents of the bucket. This bucket originally contained 9 grams uranium and 8 grams uranium-235. A recovery of less than one-half gram uranium was effected. The total release of 9 grams uranium and 8 grams uranium-235 will be shown as a measured loss and credited to the 980 account.

WCX.

HGG: mmk

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To:

J Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

April 16, 1956

Copies To:

Mr. E. C. Bollinger

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn Mr. H. G. P. Snyder Mr. B. H. Thompson

Mr. A. Varlan File (H. G. Grisham)

Subject: K-1131 Material Release,

Report No. 213

KP-869, Part 26

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment

Source of Information

March, 1956 K-1131 550

UF6

Class "A"

11,980 grams uranium K-1131 Vent Stack

W. D. McCluen

Details: Known loss of calculated quantity.

During March, 1956, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month's operation. Using an average of these vent samples (106 ppm) and a flow rate of 50 pounds per hour, a calculated quantity of 11,980 grams uranium and 80 grams uranium-235 was vented to the atmosphere during March. This quantity of material will be shown as a measured loss and credited to the 550 account.

This form for Inter Company Correspondence only



UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

\$ 58470

To:

/ Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

April 16, 1956

Copies To:

Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn Mr. H. G. P. Snyder File (H. G. Grisham) Subject:

Vault 16-A Material Release,

Report No. 214

KP-869, Part 27

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

March 19, 1956
Vault 16-A
920
Laboratory Waste
"B" and "C"
411.66 liters

Waste drums
J. W. Arendt

Details: Known loss of known quantity.

On March 19, 1956, four drums of laboratory waste were discovered to have developed leaks as a result of corrosion as follows:

Drum No.	Material Type	Quantity of Material	Grams U	Grams U ²³⁵
R-4614	12L1	101.06L	102	11
R-4185	9 L 1	104.19L	1,719	19
R-3836	10L1	105.841	93	2
R-4101	1011	100.57L	371	10
Tota	ls	411.66L	2.285	42

A quantity of 1,077 grams uranium and 24 grams uranium-235 was recovered through decontamination. The difference between the original release and the recovery (1,208 grams uranium and 18 grams uranium-235) will be shown as a measured loss and credited to the 920 account.

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Approved:

S. S. Stief

his form for Inter Company Corresponden

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To:

/ Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

April 16, 1956

Copies To: Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn Mr. H. G. P. Snyder File (H. G. Grisham)

Subject: Vault 15-A Material Release,

Report No. 215

KP-869, Part 28

Date of Release Location of Release

Balance Area Account No.

Material

Class or Assay

Amount of Material Involved

Equipment

Source of Information

April 4, 1956 Vault 15-A

920

Nitric Acid Solution

0.845%

545.28 liters

Drums

J. W. Arendt

Details: Known loss of known quantity.

On April 4, 1956, three drums in vault 15-A were discovered to have developed leaks due to corrosion and released the contents of the drums as follows:

Drum No.	Material	Grams U	Grams U-235
E-4473	199.68 L	635	5
E-4474 E-4482	197.12 L 148.48 L	627 <u>472</u>	14
Totals	545.28 L	1,734	14

No recovery was effected. The total release of 1,734 grams uranium and 14 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

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INTER-COMPLY CORRESPONDENCE

M58613

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To:

/ Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

-505-0

Date:

April 16, 1956

Copies To:

Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn

Mr. H. G. P. Snyder File (H. G. Grisham) Subject:

Vault 15-A Material Release,

Report No. 216

KP-869, Part 29

Date of Release

Location of Release

Balance Area Account No.

Material

Class or Assay

Amount of Material Involved

Equipment

Source of Information

April 9, 1956 Vault 15-A

920

Nitric Acid Solution

"B"

708.44 liters

Drums

J. W. Arendt

Details: Known loss of known quantity.

On April 9, 1956, four drums were discovered to have developed leaks as a result of corrosion and released the contents of the drums as follows:

December 150	Quantity of	G 11	Gmama 11 035
Drum No.	Material	Grams U	Grams U-235
E-4495	202.24	643	5
E-4494	202.24	643	5
E-4476	202.24	643	5
R-2617	101.72	642	_7
Totals	708.44	2,571	22

Since there was no recovery, the total release of 2,571 grams uranium and 22 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

H. G. Grisham

Approved

S. S. Stief

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WCX-163 (8-55)

-35

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

10:

Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

May 11, 1956

G-6600to

Copies To: Mr. J W. Arendt

Mr. R. R. Frazier (2)

Mr. W. D. McCluen

/Mr. M. F. Schwenn

Mr. H. G. P. Snyder File (H. G. Grisham)

Subject: Vault 16-A Material Release,

Report No. 217

KP-869, Part 30

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment

Source of Information

April 9, 1956 Vault 16-A 920 Laboratory Waste "B" and "C" 6,237 grams uranium

Drums as listed below

J. W. Arendt

Details: Known loss of known quantity.

On April 9, 1956, eight drums of laboratory waste material in vault 16-A were discovered to have developed leaks as a result of corrosion. The contents of the drums were released as follows:

Drum No.	Material Type	Quantity of Material	Grams U	Grams U ² 35
R-4120 R-2696 R-3805 E-3002 R-4167 R-3925 R-3580 R-4132	9L1 9L1 11L1 9L1 9L1 11L1 10L1	107.15 L. 102.45 L. 239.10 lbs. 135.68 L. 105.34 L. 94.32 L. 246.30 lbs. 102.88 L.	567 488 479 902 1,380 861 1,145 415	7 5 30 11 25 14 84 12
20002 11000				

A recovery through decontamination was effected as follows:

E-4631	1011	156.16 L.	1,640	48
Sample No. 922008	1011	1.00 L.	11	0
Total Recovery			1,651	48

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Mr. J. A. Parsons

HGG:mmk

May 11, 1956

The difference between the total release and recovery (4,586 grams uranium and 140 grams uranium-235) will be shown as a measured loss and credited to the 920 account.

-2-

H. G. Grisham

Approved:

oved:__

CONFIDENTIAL

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COMPRENIENT

SECRET

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To:

Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

May 14, 1956

Copies To:

Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder File (H. G. Grisham) Subject:

Vault 16-A Material Release,

Report No. 218

KP-869, Part 31

Date of Release Location of Release Balance Area Account No. Material

Class or Assay Amount of Material Involved Equipment Source of Information April 9, 1956
Vault 16-A
920
Carbitol, laboratory waste,
and acid solutions
"A", "B", and "C"

527.85 liters

Drums as shown below

J. W. Arendt

Details: Known loss of known quantity.

On April 9, 1956, four drums in vault 16-A were discovered to have developed leaks as a result of corrosion and released the contents as follows:

Drum No.	Material Type	Quantity of Material	Grams U	Grams U ² 35
R-3001 R-4171 R-4601 R-4628	11L1 9D2 6D1	275.85 L. 106.00 L. 49.05 L. 96.95 L.	597 251 81 1,619	41 14 1 10
		Total Release	2,548	6 6
A recovery was eff	ected as f	Collows:		
E-4630 Sample No. 922007	11L1 11L1	125.44 L. 1.00 L.	646 5	33 0
· Delle-		Total Recovery	651	33

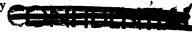
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Mr. J. A. Parsons

-5-

May 14, 1956

The measured loss, difference between release and recovery, which will be shown for this release and credited to the 920 account is broken down in the following manner:

Material Classification	Grams U	Grams U ²³⁵
Depleted Enriched below 75.0%	1,619 278	10 <u>23</u>
Total measured loss	1,897	33

HGG: mmk

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

May 15, 1956

opace To Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn

Mr. H. G. P. Snyder File (H. G. Grisham)

Subject:

Vault 16-A Material Release,

Report No. 219

KP-869, Part 32

Date of Release Location of Release Balance Area Account No. Material

Class or Assay Amount of Material Involved Equipment Source of Information April 9, 1956 Vault 16-A 920

Nitric acid, laboratory waste, and uranyl fluoride solutions "A", "B", and "C" 15.517 grams uranium

15,517 grams uranium Drums as shown below J. W. Arendt

Details: Known loss of known quantity.

On April 9, 1956, six drums of the above-described material developed leaks due to corrosion and released their contents as follows:

Drum No.	Material Type	Quantity of Material	Grems U	Grams U ² 35
R-2550 R-3452 R-3483 R-3739 R-4053 R-4421	12L1 970 12L1 9L1 10L1 4D2	268.00 lbs. 62.50 L. 278.35 lbs. 101.56 L. 105.01 L. 85.59 L.	900 11,149 617 146 112 2,593	95 147 83 2 3 12
	Tota	1	15,517	342

A recovery through decontamination was effected as follows:

E-4632 Sample 922009	9 L1	166.40 L. 1.00 L.	3,910 24	7+0
Total Recovery		al Recovery	3,934	40

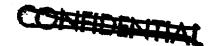
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Mr. J. A. Parsons

HGG:mmk

-2-

May 15, 1956

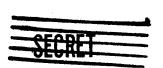
A total of 11,583 grams uranium and 302 grams uranium-235, the difference between original release and total recovery, will be shown as a measured loss and credited to the 920 account. The measured loss is broken down into material ranges as follows:

Material Range	Grams U	Grams U235	
Depleted Enriched below 75.0%	2,593 8,990	12 290	
	11,583	302	

H. G. Grisham

Approved:

S. S. Stief



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INTER-COMPANY

UNION CARBIDE NUCLEAR COMPANY A Division of Union Carbide and Carbon Corporation

To:

/ Mr. J. A. Parsons

Plant:

Oak Ridge Gaseous Diffusion

K-303-8

Date:

May 17, 1956

Copies To: Mr. E. C. Bollinger

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn

Mr. H. G. P. Snyder Mr. B. H. Thompson

Mr. A. Varlan

File (H. G. Grisham)

Subject:

K-1131 Material Release,

Report No. 220

KP-869, Part 33

Date of Release Location of Release Balance Area Account No. Material Class or Assay

Amount of Material Involved Equipment

Source of Information

April, 1956

K-1131 550 UF6

"A"

10,070 grams uranium K-1131 Vent Stack

W. D. McCluen

Details: Known loss of calculated quantity.

During April, 1956, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month. During the first 12 days of the month, the feed plant was using normal assay Port Hope oxide. Using an average of the vent samples (114 ppm) for this period and a flow rate of 50 pounds per hour, a calculated quantity of 5,035 grams uranium and 36 grams uranium-235 was vented. The feed plant was operating with reactor tails oxide for the remaining 19 days of the month. Using a flow rate of 50 pounds per hour and an average of the vent gas samples (72 ppm) for this period, a calculated quantity of 5,035 grams uranium and 34 grams uranium-235 was vented. The total quantity of 10,070 grams uranium and 70 grams uranium-235 was vented during the month and will be shown as a measured loss credited to the 550 account.

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To:

Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

June 13, 1956

Subject: K-1131 Material Release,

Report No. 221

KP-869, Part 34

Copies To: Mr. E. C. Bollinger

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen

Mr. M. F. Schwenn

H. F. SCHWENN Mr. H. G. P. Snyder

Mr. B. H. Thompson

Mr. A. Varlan

Mr. A. varian 1050 July 18 PM 4:12

May, 1956

K-1131 550

UF6

8,900 grams uranium

K-1131 Vent Stack W. D. McCluen

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

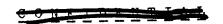
Known loss of calculated quantity. Details

During May, 1956, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month. Using an average of these samples (78 ppm) and a flow rate of 50 pounds per hour, a calculated quantity of 8,900 grams uranium and 60 grams uranium-235 was vented. This quantity will be shown as a measured loss and credited to the 550 account.

S. S. Stief

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To:

Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Date:

June 13, 1956

Copies To:

Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC 1550 USA 18 PM 4:13

Mr. W. D. McCluen

Mr. M. F. Schwenn

Mr. H. G. P. Snyder File (H. G. Grisham)

Subject: Vault 16-A Material Release,

Report No. 222

KP-869, Part 35

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment Source of Information

April 20, 1956 Outside Vault 16-A Laboratory Waste Solution 91.5% 212 grams uranium Carboy G-3059 J. W. Arendt

Details: Known loss of known quantity.

On April 20, 1956, while in the process of movement, carboy No. G-3059 was broken and the contents of laboratory waste solution were released. The carboy originally contained 212 grams uranium and 194 grams uranium-235. Through decontamination, a recovery of 206 grams uranium and 189 grams uranium-235 was effected. The difference of 6 grams uranium and 5 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

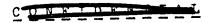
Approved: S. S. Stief

HGG: mmk

The Allande Energy McL/of/1954.

-44-

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To:

Mr. J. A. Parsons

K-303-8

Plant:

Oak Ridge Gaseous Diffusion

Vault 15-A Material Release,

Date:

Subject:

June 13, 1956

Copies To:

Mr. J. W. Arendt

Mr. R. R. Frazier (2) K25RC

Mr. W. D. McCluen Mr. M. F. Schwenn

Mr. H. G. P. Snyuer File (H. G. Grisham) Account to ph 4:12

M. F. SCHWENN

KP-869, Part 36

Report No. 223

Date of Release Location of Release Balance Area Account No. Material Class or Assay Amount of Material Involved Equipment

Source of Information

May, 1956 Vault 15-A

920

Nitric acid solution

Class "B"

427.11 liters

Drums Nos. R-4251, E-4475,

and E-4491

J. W. Arendt

Details: Known loss of known quantity.

During May, 1956, three drums as listed above were discovered to have developed leaks as a result of the corrosive action of the nitric acid solution and released the total contents of the drums. These drums originally contained 1,286 grams uranium and 11 grams uranium-235. Since there was no recovery, this total release will be shown as a measured loss and credited to the 920 account.

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Jor Report # 224 Dec KP-1069

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- 4. DOE Public Reading Room